

Appl. No. 10/707,087
Amdt. Dated April 28, 2006
Reply to Office action of February 3, 2006

Amendments to the claims:

This listing of claims will replace the prior version, and listing, of claims in the application:

Claims

Claim 1 (currently amended): A method of alleviating treating obesity and promoting lean body mass in a human individual in need thereof, comprising administering to the individual a lean body mass promoting composition containing effective amount of isoforskolin and/or deacetyl forskolin composition.

Claim 2 (currently amended): The method of claim 1[[.]] wherein the isoforskolin or deacetyl forskolin is administered in a daily dose of about 10 to about 100 mg in single or divided doses.

Claim 3 (currently amended): The method of claim [[2]] 1 wherein the dosage ~~could be form is oral and is including but not limited to selected from tablets, capsules, powders, ready-to mix preparations, spansules, chewables, liquids, solutions , suspensions, beverage drinks, carbonated drinks, emulsions; or topical and is including but not limited to selected from o/w or w/o emulsions, lotions, oils, linament, aerosol sprays, implants amongst others.~~

Claim 4 (canceled)

Claim 5 (currently amended): The method ~~in of~~ claim 1 ~~also includes the commercial method of manufacture of wherein the~~ isoforskolin and deacetyl forskolin extract composition ~~for nutraceutical and cosmeceutical applications is obtained from Coleus forskohlii or related plant species.~~

Claim 6 (canceled)

Claim 7 (canceled)

Claim 8 (currently amended) The method ~~in of~~ claim 5, ~~particularly, wherein the 7-deacetyl forskolin composition is obtained by natural hydrolysis using lipase enzyme, or with use of any chemical methods for increasing the pH to 8 and above~~ using the following steps:

- (1) Pulverizing the roots of Coleus forskohlii or related plant species;
- (2) Extracting the roots with a solvent selected from C1-C4 alcohols, toluene, or hexane;
- (3) Treating the extract obtained in (2) above with an immobilized preparation of lipase enzyme at a concentration of 0.1%-10% w/v at 37° C for 12 hours with agitation;
- (4) Filtering the extract obtained in (3) above and back extraction of the filtrate with aqueous alcohol in a water : alcohol ratio ranging from 10:90 to 90:10;

(5) Crystallization of 7-deacetyl forskolin from the extract obtained in (4) above in alcohol.

Claim 9 (currently amended) The method ~~in of~~ claim 5 can also be wherein the 7-deacetyl forskolin composition is obtained using the following steps:

- (1) Pulverizing the roots of Coleus forskohlii or related plant species;
- (2) extracting the roots with liquid carbon dioxide and a co-solvent comprising 30% to 60% ethanol at a temperature of 45° to 55°C and a pressure of 100bar to 300 bar;
- (3) treating the extract obtained in (2) above with an immobilized preparation of lipase enzyme at a concentration of 0.1%-10% w/v at 37° C for 12 hours with agitation;
- (4) filtering the extract obtained in (3) above and back extraction of the filtrate with aqueous alcohol in a water : alcohol ratio ranging from 10:90 to 90:10;
- (5) crystallization of 7-deacetyl forskolin from the extract obtained in (4) above in alcohol.

Claim 10 (new): The method of claim 5 wherein the isoforskolin composition is obtained using the following steps:

- (1) Pulverizing the roots of Coleus forskohlii or related plant species;
- (2) extracting the roots with a solvent selected from water, C1-C4 alcohols, methylene dichloride, toluene, hexane or a mixture of water and alcohol;
- (3) treating the extract obtained in (2) above with a non-polar organic solvent selected from heptane, pentane, hexane;
- (4) filtering the extract obtained in (3) above and back extraction of the filtrate with aqueous alcohol in a water : alcohol ratio ranging from 10:90 to 90:10;
- (5) crystallization of isoforskolin from the extract obtained in (4) above in alcohol.